

Global Single-Mode Blue Laser Diode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Mode Blue Laser Diode market size is expected to reach \$ 562 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

Laser diodes are electrically pumped semiconductor lasers in which the gain is generated by an electrical current flowing through a p–n junction or (more frequently) a p–i–n structure. In such a heterostructure, electrons and holes can recombine, releasing the energy portions as photons. This process can be spontaneous, but can also be stimulated by incident photons, in effect leading to optical amplification, and with optical feedback in a laser resonator to laser oscillation. A blue laser diode emits electromagnetic radiation with a wavelength between 405 and 483 nanometres, which the human eye sees as blue or violet. A single mode blue laser diode has only one mode of light to propagate.

This report includes the Single-Mode Blue Laser Diode wavelength (400nm~483nm) and it don't includes the data of Blue Laser Diode module or Blue Diode Laser.

The industry is concentration, the key brand include Sony, Nichia, Sharp, Osram Opto Semiconductors, TOPTICA Photonics Inc, Egismos Technology Corporation and Ondax. These companies occupied more than 90% market share by revenue. Japan is the largest consumption place, with a consumption market share nearly 56%, Following Japan, Europe is the second largest consumption place with the consumption market share of 17%.

This report studies the global Single-Mode Blue Laser Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Mode Blue Laser Diode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single-Mode Blue Laser Diode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Mode Blue Laser Diode total production and demand, 2021-2032, (K Pcs)

Global Single-Mode Blue Laser Diode total production value, 2021-2032, (USD Million)

Global Single-Mode Blue Laser Diode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Single-Mode Blue Laser Diode consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Single-Mode Blue Laser Diode domestic production, consumption, key domestic manufacturers and share

Global Single-Mode Blue Laser Diode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Single-Mode Blue Laser Diode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Single-Mode Blue Laser Diode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Single-Mode Blue Laser Diode market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nichia, Sharp, Sony, Osram Opto Semiconductors, TOPTICA Photonics Inc., Egismos Technology Corporation, Ondax, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-Mode Blue Laser Diode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Pcs) and average price (USD/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Single-Mode Blue Laser Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Mode Blue Laser Diode Market, Segmentation by Type:

Below 30mW

30mW-60mW

60mW-90mW

90mW-200mW

More than 200mW

Global Single-Mode Blue Laser Diode Market, Segmentation by Application:

Bio/Medical

Laser Projectors and Scanners

Blu-Ray Devices

Others

Companies Profiled:

Nichia

Sharp

Sony

Osram Opto Semiconductors

TOPTICA Photonics Inc.

Egismos Technology Corporation

Ondax

Key Questions Answered:

1. How big is the global Single-Mode Blue Laser Diode market?
2. What is the demand of the global Single-Mode Blue Laser Diode market?
3. What is the year over year growth of the global Single-Mode Blue Laser Diode market?
4. What is the production and production value of the global Single-Mode Blue Laser Diode market?
5. Who are the key producers in the global Single-Mode Blue Laser Diode market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 SCADA Introduction
- 1.2 World SCADA Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World SCADA Total Market by Region (by Headquarter Location)
 - 1.3.1 World SCADA Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company SCADA Revenue (2021-2032)
 - 1.3.3 China Based Company SCADA Revenue (2021-2032)
 - 1.3.4 Europe Based Company SCADA Revenue (2021-2032)
 - 1.3.5 Japan Based Company SCADA Revenue (2021-2032)
 - 1.3.6 South Korea Based Company SCADA Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company SCADA Revenue (2021-2032)
 - 1.3.8 India Based Company SCADA Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 SCADA Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World SCADA Consumption Value (2021-2032)
- 2.2 World SCADA Consumption Value by Region
 - 2.2.1 World SCADA Consumption Value by Region (2021-2026)
 - 2.2.2 World SCADA Consumption Value Forecast by Region (2027-2032)
- 2.3 United States SCADA Consumption Value (2021-2032)
- 2.4 China SCADA Consumption Value (2021-2032)
- 2.5 Europe SCADA Consumption Value (2021-2032)
- 2.6 Japan SCADA Consumption Value (2021-2032)
- 2.7 South Korea SCADA Consumption Value (2021-2032)
- 2.8 ASEAN SCADA Consumption Value (2021-2032)
- 2.9 India SCADA Consumption Value (2021-2032)

3 WORLD SCADA COMPANIES COMPETITIVE ANALYSIS

- 3.1 World SCADA Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
 - 3.2.1 Global SCADA Industry Rank of Major Players

- 3.2.2 Global Concentration Ratios (CR4) for SCADA in 2025
- 3.2.3 Global Concentration Ratios (CR8) for SCADA in 2025
- 3.3 SCADA Company Evaluation Quadrant
- 3.4 SCADA Market: Overall Company Footprint Analysis
 - 3.4.1 SCADA Market: Region Footprint
 - 3.4.2 SCADA Market: Company Product Type Footprint
 - 3.4.3 SCADA Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: SCADA Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: SCADA Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: SCADA Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: SCADA Consumption Value Comparison
 - 4.2.1 United States VS China: SCADA Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: SCADA Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based SCADA Companies and Market Share, 2021-2026
 - 4.3.1 United States Based SCADA Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies SCADA Revenue, (2021-2026)
- 4.4 China Based Companies SCADA Revenue and Market Share, 2021-2026
 - 4.4.1 China Based SCADA Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies SCADA Revenue, (2021-2026)
- 4.5 Rest of World Based SCADA Companies and Market Share, 2021-2026
 - 4.5.1 Rest of World Based SCADA Companies, Headquarters (Province, Country)
 - 4.5.2 Rest of World Based Companies SCADA Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World SCADA Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Hardware

5.2.2 Software

5.2.3 Services

5.3 Market Segment by Type

5.3.1 World SCADA Market Size by Type (2021-2026)

5.3.2 World SCADA Market Size by Type (2027-2032)

5.3.3 World SCADA Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World SCADA Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Power & Energy

6.2.2 Oil & Gas Industry

6.2.3 Water & Waste Control

6.2.4 Telecommunications

6.2.5 Transportation

6.2.6 Manufacturing Industry

6.2.7 Others

6.3 Market Segment by Application

6.3.1 World SCADA Market Size by Application (2021-2026)

6.3.2 World SCADA Market Size by Application (2027-2032)

6.3.3 World SCADA Market Size Market Share by Application (2021-2032)

7 COMPANY PROFILES

7.1 Schneider Electric SE (France)

7.1.1 Schneider Electric SE (France) Details

7.1.2 Schneider Electric SE (France) Major Business

7.1.3 Schneider Electric SE (France) SCADA Product and Services

7.1.4 Schneider Electric SE (France) SCADA Revenue, Gross Margin and Market Share (2021-2026)

7.1.5 Schneider Electric SE (France) Recent Developments/Updates

7.1.6 Schneider Electric SE (France) Competitive Strengths & Weaknesses

7.2 ABB (Switzerland)

7.2.1 ABB (Switzerland) Details

7.2.2 ABB (Switzerland) Major Business

- 7.2.3 ABB (Switzerland) SCADA Product and Services
- 7.2.4 ABB (Switzerland) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.2.5 ABB (Switzerland) Recent Developments/Updates
- 7.2.6 ABB (Switzerland) Competitive Strengths & Weaknesses
- 7.3 Siemens AG (Germany)
 - 7.3.1 Siemens AG (Germany) Details
 - 7.3.2 Siemens AG (Germany) Major Business
 - 7.3.3 Siemens AG (Germany) SCADA Product and Services
 - 7.3.4 Siemens AG (Germany) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.3.5 Siemens AG (Germany) Recent Developments/Updates
 - 7.3.6 Siemens AG (Germany) Competitive Strengths & Weaknesses
- 7.4 Emerson (US)
 - 7.4.1 Emerson (US) Details
 - 7.4.2 Emerson (US) Major Business
 - 7.4.3 Emerson (US) SCADA Product and Services
 - 7.4.4 Emerson (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.4.5 Emerson (US) Recent Developments/Updates
 - 7.4.6 Emerson (US) Competitive Strengths & Weaknesses
- 7.5 Rockwell Automation Inc. (US)
 - 7.5.1 Rockwell Automation Inc. (US) Details
 - 7.5.2 Rockwell Automation Inc. (US) Major Business
 - 7.5.3 Rockwell Automation Inc. (US) SCADA Product and Services
 - 7.5.4 Rockwell Automation Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.5.5 Rockwell Automation Inc. (US) Recent Developments/Updates
 - 7.5.6 Rockwell Automation Inc. (US) Competitive Strengths & Weaknesses
- 7.6 Honeywell International Inc. (US)
 - 7.6.1 Honeywell International Inc. (US) Details
 - 7.6.2 Honeywell International Inc. (US) Major Business
 - 7.6.3 Honeywell International Inc. (US) SCADA Product and Services
 - 7.6.4 Honeywell International Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.6.5 Honeywell International Inc. (US) Recent Developments/Updates
 - 7.6.6 Honeywell International Inc. (US) Competitive Strengths & Weaknesses
- 7.7 Mitsubishi Electric (Japan)
 - 7.7.1 Mitsubishi Electric (Japan) Details
 - 7.7.2 Mitsubishi Electric (Japan) Major Business

- 7.7.3 Mitsubishi Electric (Japan) SCADA Product and Services
- 7.7.4 Mitsubishi Electric (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.7.5 Mitsubishi Electric (Japan) Recent Developments/Updates
- 7.7.6 Mitsubishi Electric (Japan) Competitive Strengths & Weaknesses
- 7.8 Omron Corporation (Japan)
 - 7.8.1 Omron Corporation (Japan) Details
 - 7.8.2 Omron Corporation (Japan) Major Business
 - 7.8.3 Omron Corporation (Japan) SCADA Product and Services
 - 7.8.4 Omron Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.8.5 Omron Corporation (Japan) Recent Developments/Updates
 - 7.8.6 Omron Corporation (Japan) Competitive Strengths & Weaknesses
- 7.9 General Electric Co. (US)
 - 7.9.1 General Electric Co. (US) Details
 - 7.9.2 General Electric Co. (US) Major Business
 - 7.9.3 General Electric Co. (US) SCADA Product and Services
 - 7.9.4 General Electric Co. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.9.5 General Electric Co. (US) Recent Developments/Updates
 - 7.9.6 General Electric Co. (US) Competitive Strengths & Weaknesses
- 7.10 Yokogawa Electric Corporation (Japan)
 - 7.10.1 Yokogawa Electric Corporation (Japan) Details
 - 7.10.2 Yokogawa Electric Corporation (Japan) Major Business
 - 7.10.3 Yokogawa Electric Corporation (Japan) SCADA Product and Services
 - 7.10.4 Yokogawa Electric Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.10.5 Yokogawa Electric Corporation (Japan) Recent Developments/Updates
 - 7.10.6 Yokogawa Electric Corporation (Japan) Competitive Strengths & Weaknesses
- 7.11 Larsen & Toubro (India)
 - 7.11.1 Larsen & Toubro (India) Details
 - 7.11.2 Larsen & Toubro (India) Major Business
 - 7.11.3 Larsen & Toubro (India) SCADA Product and Services
 - 7.11.4 Larsen & Toubro (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
 - 7.11.5 Larsen & Toubro (India) Recent Developments/Updates
 - 7.11.6 Larsen & Toubro (India) Competitive Strengths & Weaknesses
- 7.12 M.B. Control & Systems Pvt. Ltd (India)
 - 7.12.1 M.B. Control & Systems Pvt. Ltd (India) Details

- 7.12.2 M.B. Control & Systems Pvt. Ltd (India) Major Business
- 7.12.3 M.B. Control & Systems Pvt. Ltd (India) SCADA Product and Services
- 7.12.4 M.B. Control & Systems Pvt. Ltd (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.12.5 M.B. Control & Systems Pvt. Ltd (India) Recent Developments/Updates
- 7.12.6 M.B. Control & Systems Pvt. Ltd (India) Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 SCADA Industry Chain
- 8.2 SCADA Upstream Analysis
- 8.3 SCADA Midstream Analysis
- 8.4 SCADA Downstream Analysis

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Single-Mode Blue Laser Diode Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Single-Mode Blue Laser Diode Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Single-Mode Blue Laser Diode Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Single-Mode Blue Laser Diode Production Value Market Share by Region (2021-2026)
- Table 5. World Single-Mode Blue Laser Diode Production Value Market Share by Region (2027-2032)
- Table 6. World Single-Mode Blue Laser Diode Production by Region (2021-2026) & (K Pcs)
- Table 7. World Single-Mode Blue Laser Diode Production by Region (2027-2032) & (K Pcs)
- Table 8. World Single-Mode Blue Laser Diode Production Market Share by Region (2021-2026)
- Table 9. World Single-Mode Blue Laser Diode Production Market Share by Region (2027-2032)
- Table 10. World Single-Mode Blue Laser Diode Average Price by Region (2021-2026) & (USD/Pcs)
- Table 11. World Single-Mode Blue Laser Diode Average Price by Region (2027-2032) & (USD/Pcs)
- Table 12. Single-Mode Blue Laser Diode Major Market Trends
- Table 13. World Single-Mode Blue Laser Diode Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)
- Table 14. World Single-Mode Blue Laser Diode Consumption by Region (2021-2026) & (K Pcs)
- Table 15. World Single-Mode Blue Laser Diode Consumption Forecast by Region (2027-2032) & (K Pcs)
- Table 16. World Single-Mode Blue Laser Diode Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Single-Mode Blue Laser Diode Producers in 2025
- Table 18. World Single-Mode Blue Laser Diode Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Single-Mode Blue Laser Diode Producers in 2025

Table 20. World Single-Mode Blue Laser Diode Average Price by Manufacturer (2021-2026) & (USD/Pcs)

Table 21. Global Single-Mode Blue Laser Diode Company Evaluation Quadrant

Table 22. World Single-Mode Blue Laser Diode Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Single-Mode Blue Laser Diode Production Site of Key Manufacturer

Table 24. Single-Mode Blue Laser Diode Market: Company Product Type Footprint

Table 25. Single-Mode Blue Laser Diode Market: Company Product Application Footprint

Table 26. Single-Mode Blue Laser Diode Competitive Factors

Table 27. Single-Mode Blue Laser Diode New Entrant and Capacity Expansion Plans

Table 28. Single-Mode Blue Laser Diode Mergers & Acquisitions Activity

Table 29. United States VS China Single-Mode Blue Laser Diode Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Single-Mode Blue Laser Diode Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Single-Mode Blue Laser Diode Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Single-Mode Blue Laser Diode Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Single-Mode Blue Laser Diode Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Single-Mode Blue Laser Diode Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Single-Mode Blue Laser Diode Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Single-Mode Blue Laser Diode Production Market Share (2021-2026)

Table 37. China Based Single-Mode Blue Laser Diode Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Single-Mode Blue Laser Diode Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Single-Mode Blue Laser Diode Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Single-Mode Blue Laser Diode Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Single-Mode Blue Laser Diode Production Market Share (2021-2026)

Table 42. Rest of World Based Single-Mode Blue Laser Diode Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Single-Mode Blue Laser Diode Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Single-Mode Blue Laser Diode Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Single-Mode Blue Laser Diode Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Single-Mode Blue Laser Diode Production Market Share (2021-2026)

Table 47. World Single-Mode Blue Laser Diode Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Single-Mode Blue Laser Diode Production by Type (2021-2026) & (K Pcs)

Table 49. World Single-Mode Blue Laser Diode Production by Type (2027-2032) & (K Pcs)

Table 50. World Single-Mode Blue Laser Diode Production Value by Type (2021-2026) & (USD Million)

Table 51. World Single-Mode Blue Laser Diode Production Value by Type (2027-2032) & (USD Million)

Table 52. World Single-Mode Blue Laser Diode Average Price by Type (2021-2026) & (USD/Pcs)

Table 53. World Single-Mode Blue Laser Diode Average Price by Type (2027-2032) & (USD/Pcs)

Table 54. World Single-Mode Blue Laser Diode Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Single-Mode Blue Laser Diode Production by Application (2021-2026) & (K Pcs)

Table 56. World Single-Mode Blue Laser Diode Production by Application (2027-2032) & (K Pcs)

Table 57. World Single-Mode Blue Laser Diode Production Value by Application (2021-2026) & (USD Million)

Table 58. World Single-Mode Blue Laser Diode Production Value by Application (2027-2032) & (USD Million)

Table 59. World Single-Mode Blue Laser Diode Average Price by Application (2021-2026) & (USD/Pcs)

Table 60. World Single-Mode Blue Laser Diode Average Price by Application

(2027-2032) & (USD/Pcs)

Table 61. Nichia Basic Information, Manufacturing Base and Competitors

Table 62. Nichia Major Business

Table 63. Nichia Single-Mode Blue Laser Diode Product and Services

Table 64. Nichia Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Nichia Recent Developments/Updates

Table 66. Nichia Competitive Strengths & Weaknesses

Table 67. Sharp Basic Information, Manufacturing Base and Competitors

Table 68. Sharp Major Business

Table 69. Sharp Single-Mode Blue Laser Diode Product and Services

Table 70. Sharp Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Sharp Recent Developments/Updates

Table 72. Sharp Competitive Strengths & Weaknesses

Table 73. Sony Basic Information, Manufacturing Base and Competitors

Table 74. Sony Major Business

Table 75. Sony Single-Mode Blue Laser Diode Product and Services

Table 76. Sony Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Sony Recent Developments/Updates

Table 78. Sony Competitive Strengths & Weaknesses

Table 79. Osram Opto Semiconductors Basic Information, Manufacturing Base and Competitors

Table 80. Osram Opto Semiconductors Major Business

Table 81. Osram Opto Semiconductors Single-Mode Blue Laser Diode Product and Services

Table 82. Osram Opto Semiconductors Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Osram Opto Semiconductors Recent Developments/Updates

Table 84. Osram Opto Semiconductors Competitive Strengths & Weaknesses

Table 85. TOPTICA Photonics Inc. Basic Information, Manufacturing Base and Competitors

Table 86. TOPTICA Photonics Inc. Major Business

Table 87. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Product and Services

Table 88. TOPTICA Photonics Inc. Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. TOPTICA Photonics Inc. Recent Developments/Updates

Table 90. TOPTICA Photonics Inc. Competitive Strengths & Weaknesses

Table 91. Egismos Technology Corporation Basic Information, Manufacturing Base and Competitors

Table 92. Egismos Technology Corporation Major Business

Table 93. Egismos Technology Corporation Single-Mode Blue Laser Diode Product and Services

Table 94. Egismos Technology Corporation Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Egismos Technology Corporation Recent Developments/Updates

Table 96. Egismos Technology Corporation Competitive Strengths & Weaknesses

Table 97. Ondax Basic Information, Manufacturing Base and Competitors

Table 98. Ondax Major Business

Table 99. Ondax Single-Mode Blue Laser Diode Product and Services

Table 100. Ondax Single-Mode Blue Laser Diode Production (K Pcs), Price (USD/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Ondax Recent Developments/Updates

Table 102. Ondax Competitive Strengths & Weaknesses

Table 103. Global Key Players of Single-Mode Blue Laser Diode Upstream (Raw Materials)

Table 104. Global Single-Mode Blue Laser Diode Typical Customers

Table 105. Single-Mode Blue Laser Diode Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Single-Mode Blue Laser Diode Picture

Figure 2. World Single-Mode Blue Laser Diode Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Single-Mode Blue Laser Diode Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 5. World Single-Mode Blue Laser Diode Average Price (2021-2032) & (USD/Pcs)

Figure 6. World Single-Mode Blue Laser Diode Production Value Market Share by Region (2021-2032)

Figure 7. World Single-Mode Blue Laser Diode Production Market Share by Region (2021-2032)

Figure 8. North America Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 9. Europe Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 10. China Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 11. Japan Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 12. South Korea Single-Mode Blue Laser Diode Production (2021-2032) & (K Pcs)

Figure 13. Single-Mode Blue Laser Diode Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 16. World Single-Mode Blue Laser Diode Consumption Market Share by Region (2021-2032)

Figure 17. United States Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 18. China Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 19. Europe Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 20. Japan Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 21. South Korea Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 22. ASEAN Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 23. India Single-Mode Blue Laser Diode Consumption (2021-2032) & (K Pcs)

Figure 24. Producer Shipments of Single-Mode Blue Laser Diode by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Single-Mode Blue Laser

Diode Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Single-Mode Blue Laser Diode Markets in 2025

Figure 27. United States VS China: Single-Mode Blue Laser Diode Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Single-Mode Blue Laser Diode Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Single-Mode Blue Laser Diode Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Single-Mode Blue Laser Diode Production Market Share 2025

Figure 31. China Based Manufacturers Single-Mode Blue Laser Diode Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Single-Mode Blue Laser Diode Production Market Share 2025

Figure 33. World Single-Mode Blue Laser Diode Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Single-Mode Blue Laser Diode Production Value Market Share by Type in 2025

Figure 35. Below 30mW

Figure 36. 30mW-60mW

Figure 37. 60mW-90mW

Figure 38. 90mW-200mW

Figure 39. More than 200mW

Figure 40. World Single-Mode Blue Laser Diode Production Market Share by Type (2021-2032)

Figure 41. World Single-Mode Blue Laser Diode Production Value Market Share by Type (2021-2032)

Figure 42. World Single-Mode Blue Laser Diode Average Price by Type (2021-2032) & (USD/Pcs)

Figure 43. World Single-Mode Blue Laser Diode Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 44. World Single-Mode Blue Laser Diode Production Value Market Share by Application in 2025

Figure 45. Bio/Medical

Figure 46. Laser Projectors and Scanners

Figure 47. Blu-Ray Devices

Figure 48. Others

Figure 49. World Single-Mode Blue Laser Diode Production Market Share by

Application (2021-2032)

Figure 50. World Single-Mode Blue Laser Diode Production Value Market Share by Application (2021-2032)

Figure 51. World Single-Mode Blue Laser Diode Average Price by Application (2021-2032) & (USD/Pcs)

Figure 52. Single-Mode Blue Laser Diode Industry Chain

Figure 53. Single-Mode Blue Laser Diode Procurement Model

Figure 54. Single-Mode Blue Laser Diode Sales Model

Figure 55. Single-Mode Blue Laser Diode Sales Channels, Direct Sales, and Distribution

Figure 56. Methodology

Figure 57. Research Process and Data Source

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